

**UNIVERSITY OF CAMBRIDGE**  
**DEPARTMENT OF HISTORY AND PHILOSOPHY OF SCIENCE**  
**ANNUAL REPORT**  
**1987 - 1988**

## HISTORY AND PHILOSOPHY OF SCIENCE

### ANNUAL REPORT 1987-1988

The session has proved a very satisfactory one both in terms of student numbers and research activity. There were 21 Ph.D. students and 15 registered for the M.Phil. Undergraduate numbers taking HPS options in the Natural Sciences Tripos comprised 86 at IB and 28 at Part II. The Brownowski Prize in the Part II Examination was awarded to Ms Emma Spary (Newnham). Congratulations are extended to Mr Andrew Warwick for the award of a Research Fellowship at St. John's. Other college Research Fellows who continued to contribute very usefully to the Department's activities included Dr Jan Golinski (Churchill) and Dr Tien-Yu Cao (Trinity).

A new category of Honorary Research Associate was instituted in the Department. The following elections were made:- Professor Stephen Mason, FRS, Professor Emeritus of Chemistry at King's College London; Dr Adrian Mathias, Fellow of Peterhouse, a specialist in mathematical logic; and Professor Jagdish Mehra, Solvay Professor of the History of Physics at Brussels.

Apart from the general Graduate Seminar held weekly in Full Term on Thursday afternoons, specialist Research Seminars were conducted in the History of Science, the Philosophy of Science, the Philosophy of Physics, the History of Medicine, and in the History of Psychiatry and Psychoanalysis. The  $\Sigma$ -club met fortnightly to debate foundational issues in the Natural Sciences and Mathematics. The highlight here was the visit of Professor John Earman from the Department of History and Philosophy of Science, University of Pittsburgh, who gave three lectures under the title 'World and Space-Time Enough'. There was also a very successful series of eight lectures delivered in the Lent Term on Computers, part of an occasional series in Science, Technology and Society.

Professor Redhead delivered his Inaugural Lecture in November 1987. In June 1988 he was elected President-Elect of the British Society for the Philosophy of Science. He was also appointed to the Editorial Board of Physics Essays and Foundations of Physics Letters. Dr Jardine was appointed Editor of Studies in History and Philosophy of Science, and also acted as Directeur d'Etudes Associe, Ecole des Haute Etudes en Science Sociale, in March and April 1988.

Our Librarian Deborah Scott-Douglas left during the Session to have a baby. She has done wonders in building up the Whipple Library and introducing computerized automation. We wish her every success for the future. We welcome as our new Librarian Susan Wray, who has joined us from Geography.

In May 1988 Dr Simon Schaffer was awarded a Royal Society Grant for Research in History of Science for research in the careers of Cavendish workers 1871-1894.

We congratulate Tom Whiteside on the conferment of an ad hominem Professorship. Professor Whiteside took up his Professorship in the

Department of Pure Mathematics, but we acknowledge the very prestigious contributions to the History of Mathematics, including the momental editing of Newton's Mathematical Papers, undertaken whilst a member of the History and Philosophy of Science Department.

Dr Michael Hoskin took early retirement at the end of the session. He has worked tirelessly on behalf of the Department since its inception and was Head of the Department for most of the period 1976 to 1987. His researches in the History of Astronomy have brought great distinction to History and Philosophy of Science at Cambridge, and we wish him well in his retirement.

A number of Academic Visitors arrived in the Department during the Session. They included:-

Dr Ma Bo-Ying - Shanghai First Medical School  
Dr John Cise - Austin Community College, Texas  
Prof. J.T. Cushing - Univeristy of Notre Dame, Indiana, U.S.A.  
Dr R. Gaffney - Siena College, Loudonville, New York, U.S.A.  
Prof. Guo Guichun - Shanxi University, Taiyuan, China  
Mr D.M. Kim - Harvard University, U.S.A.  
Dr Kenneth Lyall - Malaspina College, British Columbia  
Dr M. Papathanasiou - University of Athens, Greece  
Prof. Sang-yong Song - Hallym University, Korea  
Prof. Perez Seden - University of Madrid, Spain  
Prof. John Tucker - University of Waterloo, Ontario, Canada

In the following pages we list the research activity in the Department, showing conferences attended and outside lectures given by members of the Department, lists of visiting speakers to our various seminars, and finally a list of publications for the period 1st January 1987 to 30th September 1988.

The record of research activity is an impressive one, which underscores the international reputation of History and Philosophy of Science at Cambridge.

As appendices we include the separate annual Reports, already published, of the Sub-Department of the History of Medicine (Wellcome Unit) and the Whipple Museum for the History of Science.

## LECTURES AND CONFERENCES

### M. L. G. REDHEAD

November 1987

'Physics for Pedestrians'. Inaugural lecture at Cambridge.

January 1988

'Passion-at-a-Distance'. The British Society for the Philosophy of Science.

April 1988

'Popper and the Quantum Theory'. The London School of Economics.

May 1988

'Stochastic Hidden Variable Theories'. University of Oxford.

N. JARDINE

March, 1988

'Kepler: Philosophe, Historien'. Six lectures delivered at the Observatoire, Paris.

April 1988

'History of the Sciences: Anglo-Saxon Uses of French Ideas'. Lecture at the Maison des Sciences de l'Homme, Paris.

April 1988

'Aesthetics and Reliability in the Sciences'. Royal Institute of Philosophy meeting at University of Newcastle-upon-Tyne.

S. SCHAFFER

October 1987

'Eudiometry and Enlightenment Medicine'. Imperial College London.

November 1987

'Science as a Language Game'. Cambridgeshire College of Arts & Technology.

January 1988

'Hobbes, Boyle and the Experimental Life'. Ecole des Mines, Paris.

February 1988

'European Perceptions of English Experimental Philosophy in the Restoration'. History faculty, Oxford.

March 1988

'The Cavendish Laboratory and the Outside World'. Lancaster University.

April 1988

'Astronomical Discipline and the Observer'. Wissenschaftskolleg zu Berlin.

April 1988

'Culture of Victorian Observatories'. History department, University of California, San Diego.

July 1988

'Cavendish Physics and Standardisation'. Cite des sciences et de l'industrie, La Villette, Paris.

September 1988

'Anglo-Dutch Medicine and the Glorious Revolution'. Royal Society, London.

J.A. BENNETT

October 1987

Lecture on Scientific Instruments to Cambridge branch of the Association of Science Education.

October 1987

Talk on BBC Radio 4: Johannes Kepler.

November 1987

Talk on Scientific Instruments to Cambridge Rotary Club.

January 1988

Discussion on Scientific Instruments for Quebec Television.

June 1988

Talk on Instruments to Cambridgeshire Astronomical Society.

July-August 1988

Seven lectures to various summer schools on aspects of seventeenth-century science.

July 1988

Lecture on Sundials to secondary teachers group, Homerton.

September 1988

'Collecting Policy in a Specialist Museum'. International Union for History and Philosophy of Science, Scientific Instruments Division, London.

September 1988

'Maps and Early Modern Mathematics' Thomas Harriot Seminar, Homerton College, Cambridge.

D. PAPINEAU

November 1987

'Naturalized Traditional Epistemology'. Manchester University.

December 1987

'Mathematical Fictionalism'. M.I.T.

December 1987

'Mathematical Fictionalism'. Cornell University.

December 1987

'Naturalized and Traditional Epistemology'. Columbia University.

December 1987

'Mathematical Fictionalism'. Maryland University.

- March 1988  
 'Naturalized and Traditional Epistemology'. Sydney University.
- March 1988  
 'Computers, Content and Consciousness'. Macquarie University.
- March 1988  
 'Mathemtaical Fictionalism'. New South Wales University.
- April 1988  
 'The Problem of Representation'. Australian National University, Research School of Social Sciences.
- April 1988  
 'Naturalized and Traditional Epistemology'. Australian National University, Faculty of Arts.
- May 1988  
 'Boscovich and the Acceptance of the Newtonian Concept of Force'. Rome Bocovich Conference.
- September 1988  
 'Teleology and Irreducibility'. Bradford Reduction Conference.

J.P. FORRESTER

- December 1987  
 'The History of the Case History'. Paper given to Department of Psychiatry, Guy's Hospital, London.
- Lent Term 1988  
 'The Computer as Scientific Model and Ideal'. Part of guest lecture series on 'The Computer', sponsored by the Committee on Science, Technology and Society, Department of History and Philosophy of Science, University of Cambridge.
- March and May 1988  
 'Lying on the Couch: Truth, Lies and Psychoanalysis'. Various versions of this paper given to the British Society for the Philosophy of Science (March 1988), University of Kent Seminar on Science and Society (March 1988): Architectural Association, London, Guest Lecture Series on 'Tradition'.
- May 1988  
 'Action Brings Good Fortune. Lacan's Theory of Time'. The Seminar in Cultural History, St Edmund's Hall, University of Oxford.
- June 1988  
 'Fin ou l'Ecriture Interminable'. Conference on Psychanalyse et litterature, University of Paris VII, Sorbonne.

October 1988

Seminar Series on History and Philosophy of Psychoanalysis, delivered while Visiting Professor, in Department of Logic and Epistemology of the Human Sciences, University of Campinas, Brazil.

October 1988

'Lacan's Theory of Punctuation and the Idea of Logical Time'. Seminar delivered to Biblioteca Freudiana, Sao Paulo, Brazil.

October 1988

'The Speech of the Psychoanalyst'. Seminar delivered to Departments of Philosophy and Psychology, Catholic University of Rio de Janeiro, Rio de Janeiro, Brazil.

October 1988

Two seminars delivered to Circulo Psicanalitico do Rio de Janeiro, Brazil.

October 1988

'Michel Foucault and Psychoanalysis'. Seminar delivered to the Institute of Social Medicine, State University of Rio de Janeiro, Rio de Janeiro, Brazil.

#### M.B. HESSE

January 1988

'Realism and Models in Science and Religion'. Divinity School, Cambridge.

February 1988

Keynote speaker at all-day Studium Generale on Philosophy of Science. University of Utrecht.

May 1988

'Religion, Science and Symbolism'. University of Utrecht.

September 1988

'Modern Cosmology and Arguments from Design'. Indiana University.

September 1988

'What Use is Philosophy of Science to Scientists?' Providence College, Rhode Island.

#### S.MASON

May 1988

'The Origins of Biomolecular Handedness'. The Yorkshire Division of the Royal Society of Chemistry at the Chemistry Department, University of York.

July 1988

'Chemical Evolution; Past and Present'. The graduate seminar of the Department of the History and Philosophy of Science, King's College London.

J.V. GOLINSKI

October 1987

'Humphry Davy and the End of the Enlightenment in England'. Johns Hopkins University, Baltimore, USA.

November 1987

'Language, Discourse and Science'. Princeton University, USA.

January 1988

'Humphry Davy's Uses of Experiment'. Manchester University.

April 1988

'Experiment and Audience: Humphry Davy and the Fate of the Enlightenment'. University of California, San Diego, USA.

University of Cambridge  
DEPARTMENT OF HISTORY AND PHILOSOPHY OF SCIENCE  
MICHAELMAS TERM SEMINARS 1987

Seminars are held on Thursdays at 4.30 pm. in Seminar Room 2, Free School Lane.

Abstracts are enclosed. Anyone wishing to be put on the mailing list for future seminars should contact the secretary at the above address, or telephone (0223) 334540.

Thursday 15 October	Mr S. Gardner St Hilda's College Oxford	Problems in the Philosophy of Psychoanalysis
Thursday 22 October	Dr C. Hookway University of Birmingham	Truth, Convergence and Pragmatism: the Development of Peirce's views
Thursday 29 October	Dr P. Bowler Queens University Belfast	The Non-Darwinian Revolution: Reinterpreting a Historical Myth
Thursday 5 November	Prof. Schramm University of Graz	The Cambridge Probabilists
Thursday 12 November	Prof. F. Rohrlich Syracuse, SUNY	Reduction in the Physical Sciences
Thursday 19 November	Prof. P. Rattansi University College London	"Physical" and "Geometrical" Causes in Kepler's Astrology
Thursday 26 November	Dr S. Shapin University of Edinburgh	Technicians in Seventeenth- Century England
Thursday 3 December	Prof. A. O'Hear University of Bradford	The Two Cultures Revisited: What is Correct in what Leavis Said

THE  $\Sigma$ - CLUB

CAMBRIDGE - LONDON - OXFORD

The Sigma Club is a society based in Cambridge, London and Oxford, concerned with philosophical aspects of the natural sciences and mathematics. Non-members are welcome to attend and join in the discussions.

MICHAELMAS TERM 1987

**CAMBRIDGE**

Regular meetings will be held on alternate Tuesdays in the Seminar Room, Department of History and Philosophy of Science, at 4.30 p.m. Tea will be provided before the meetings at 4.00 p.m. in Professor Redhead's room.

20th October

Richard Sorabji (London)

**The Greek Origin of the Idea of Chemical Mixture. Can Two Bodies in be in the Same Place?**

3rd November

David Deutsch (Oxford)

**Is Knowledge a Quantum Phenomenon?**

17th November

Michael Redhead (Cambridge)

**Physics for Pedestrians**

N.B. This is Professor Redhead's Inaugural Lecture and will be delivered in the Mill Lane Lecture Theatre at 5 p.m.

1st December

George Ross (London)

**The Blue Guitar - Inverse Optics in a New Light**

CAMBRIDGE GROUP FOR THE HISTORY OF  
PSYCHIATRY, PSYCHOANALYSIS & ALLIED SCIENCESDEPARTMENT OF HISTORY  
AND PHILOSOPHY OF SCIENCEDEPARTMENT OF  
PSYCHIATRY

Please reply to:

Michaelmas Term, 1987: Seminars

Seminars will take place in the Department of History and Philosophy of Science, Free School Lane, Seminar Room 1, on Wednesdays, at 12.30 to 2.00 p.m (bring sandwiches if you wish), with the exception of Dr Fresco's paper, which will take place on Tuesday, at 4.30.

Oct 21	Dr Charlotte Mackenzie Rolle College, Exmouth	The late nineteenth century crisis in British psychiatry
Nov 10 <u>Tuesday</u> <u>at 4.30.</u>	Dr Nadine Fresco CNRS, Paris	When denial stands for refusal: the case of revisionist histories of the Holocaust in France.
Nov 11	Dr Jim Crichton Leicester	Psychiatric aspects of Georg Bchner's plays
Nov 25	Prof Paul Roazen University of York Toronto	Twenty years with Freud

For more details of the  
Seminars or the Group, contact  
John Forrester, HPS,  
Free School Lane,  
Cambridge CB2 3RH  
Tel: 334548/334540

University of Cambridge  
DEPARTMENT OF HISTORY AND PHILOSOPHY OF SCIENCE  
LENT TERM SEMINARS 1988

Seminars are held on Thursdays at 4.30 pm. in Seminar Room 2, Free School Lane.

Abstracts are enclosed. Anyone wishing to be put on the mailing list for future seminars should contact the secretary at the above address, or telephone (0223) 334540.

Thursday 21 January - There will be no regular Seminar. Professor Hugh Mellor will deliver his Inaugural Lecture The Warrant of Induction in Little Hall, Sidgwick Avenue Site, at 5 p.m.

Thursday 28 January	Dr L. J. Cohen Queen's College Oxford	Is there Room for an Analytical Philosophy of Science?
Thursday 4 February	Dr G. Cantor University of Leeds	Problems of Psychobiography: The Case of Michael Farraday, the 'Nice Guy' of Science
Thursday 11 February	Dr D. Papineau University of Cambridge	The Principle of the Common Cause
Thursday 18 February	Dr Colin Howson London School of Economics	Some Further Reflections on the Popper-Miller "Disproof" of Probabalistic Induction
Thursday 25 February	Dr J. Secord Imperial College	Extraordinary Experiment: Electricity, and the Condition of Life in Victorian England
Thursday 3 March	Mr A. Warwick University of Cambridge	Einstein's Theory of Relativity and British Physics 1905-1919
Thursday 10 March	Dr C. Smith University of Kent	Lord Kelvin: Intellectual Capitalist

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AND PHILOSOPHY OF SCIENCE

DEPARTMENT OF  
PSYCHIATRY

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Lent Term, 1988: Seminars

Seminars will take place in the Department of  
History and Philosophy of Science, Free School Lane,  
Seminar Room 1, on Wednesdays, at 12.30 to 2.00 p.m  
(bring sandwiches if you wish).

Feb 3	Dr Michael Shortland University of Oxford	Screen memories: Sartre's and Huston's <u>Freud</u>
Feb 10	Dr Mark Micale Wellcome Institute, London	Charcot and male hysteria
Feb 24	Dr John Forrester Department of History and Philosophy of Science	Psychoanalysis and the real event
March 9	Dr Peter Lomas, Cambridge	A discussion of <u>The Limits of Interpretation</u>

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# COMPUTERS

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*The Science, Technology and Society Committee in conjunction with the Department of History and Philosophy of Science have organised a series of public lectures on the topic 'Computers'. These will also form part of the Department of History and Philosophy of Science's teaching to undergraduates taking Natural Sciences Tripos Part IB, HPS.*

*Lectures will be held on Mondays at 5 p.m., in the Maxwell Lecture Theatre, Old Cavendish Laboratory, New Museums Site. All members of the University are welcome to attend.*

18 January	The development of modern digital computers	Prof Maurice Wilkes Emeritus Professor of Computing
25 January	The computer and the mind	Dr Philip Johnson-Laird MRC Applied Psychology Unit
1 February	The logic of artificial intelligence	Prof Robert Kowalski Professor of Computational Logic, Imperial College, University of London
8 February	The thinking machine from Leibniz to Turing	Dr Vernon Pratt School of Independent Studies, University of Lancaster
15 February	Connectionism and artificial intelligence	Prof Frank Fallside Dept of Engineering
22 February	The complexity of computer algorithms	Prof Roger Needham Computer Laboratory
29 February	The computer and the aims of science	Dr John Forrester Dept of History and Philosophy of Science
7 March	Consciousness, content and computers	Dr David Papineau Dept of History and Philosophy of Science

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LENT TERM 1988

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26th January

Prof. Phil Pearle (Hamilton College)  
**Altering Quantum Theory to Predict an Event Not Just Its Probability: Why, How and so What.**

9th February

Dr Adrian Mathias (University of Cambridge)  
**A Panorama of Set Theory**

23rd February

Dr Peter Saunders (King's College, London)  
**Beyond Neo-Darwinism**

8th March

Prof. Jim Cushing (Notre Dame)  
**The S Matrix: A role for Dead-End Theories?**

Department of History and Philosophy of Science  
Free School Lane

**Special Departmental Seminars**

Wednesday 20 January  
at 5 p.m.

Professor Paul Horwich  
MIT

Pure Truth

Wednesday 27 January  
at 3.30 p.m.

Dr Dominique Jannicaud  
University of Nice

Reason and Power after  
Nietzsche: the Habermas-  
Foucault Debate

University of Cambridge

DEPARTMENT OF HISTORY AND PHILOSOPHY OF SCIENCE

EASTER TERM SEMINARS 1988

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Abstracts are enclosed. Anyone wishing to be put on the mailing list for future seminars should contact the secretary at the above address, or telephone (0223) 334540.

Thursday 28 April	Prof. Isaac Levi Columbia University	Possibility and Probability: Some Reflections on de Finetti's Views.
Thursday 5 May	Prof. Ian Kennedy King's College London	Randomised Control Trials: Ethical and Legal Issues.
Thursday 12 May	Dr Richard Yeo Griffith University Australia	Newton in the Nineteenth- Century: Problems of Genius and Character.
Thursday 19 May	Dr John Durant Oxford	Science versus Ideology in Evolutionary Philosophy of Julian Huxley
Thursday 26 May	Dr Simon Schaffer University of Cambridge	Cavendish Physics, Greenwich Astronomy and the Measurement of Victorian Values
Thursday 2 June	Dr Paul Seabright Churchill College Cambridge	Goodman's Paradox and the Social Sciences
Thursday 9 June	Dr Peter Urbach London School of Economics	Bayesian and Classical Methods of Estimation
Thursday 16 June	Ms Frances Willmoth History and Philosophy of Science, Cambridge	Moore's Arithmetick: Or, The Art of Survival and Pursuit of a Fortune, by a New Method Never Before Practised.

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26th April

Prof. Radu Balescu (Brussels)

**Some Reflections on the Foundations of Statistical Mechanics**

10th May

Dr John Dougherty (Dept. Applied Mathematics and Theoretical Physics)

**Nonequilibrium Statistical Mechanics: The Interplay of Mathematics and Physics**

24th - 25th May

Prof. John Earman (Pittsburgh)

Will deliver the 1988 Michael Wright Lectures

**World and Space-Time Enough : Reflections on Absolute versus Relational Conceptions of Space and Time**

24th May : 4.30 pm Lecture I : Introduction. Kant, Incongruent Counterparts, and Absolute Space

25th May : 2 pm Lecture II : Rotation and Relational Theories of Motion

: 3.30 pm Tea

: 4 pm Lecture III : Determinism and Space-Time Substantivalism

: 5 pm Panel Discussion chaired by Michael Redhead

7th June

Prof. Bill Saslow (Virginia)

**Style in Science : The Large Scale Structure of the Universe**

## PUBLICATIONS

J.A. BENNETT

The Divided Circle: a History of Instruments for Astronomy, Navigation and Surveying. Phaidon-Christies, 1987.

'Johannes Kepler: The New Astronomy' in R. Porter, ed., Man Masters Nature, BBC Books, 1987, pp.51-62.

Edited:

Newton's Principia, 1687-1987

(Wallchart exhibition, Whipple Museum, 1987)

G. BUCHDAHL

'Philosophy of Science: Its Historical Roots', in Les Relations Mutuelles entre la Philosophie des Sciences et l'Histoire des Sciences, in Archives de l'Institut International des Sciences Theoriques Office International de Librairie, Bruxelles, 1987, pp.39-56. Also in: Epistemologia, 10, 1987, Special issue (Tilgher-Genova), pp.39-56.

'Das Problem des Wissenschaftsrealismus in Kantischer Sicht', in Wolfgang Kluxen (ed.) Tradition and Innovation, Felix Meiner Verlag, 1988, pp.110-134.

TIEN-YU CAO

'Gauge Theory and the Geometrization of Fundamental Physics', in H.R. Brown and R. Harré (eds.) Philosophical Foundations of Quantum Field Theory, Clarendon Press, Oxford, 1988, pp.117-133.

R.K. CLIFTON

'Bell's Theorem: A Case Study in the Philosophy of Quantum Mechanisms'. Physics 13 News, 62, 1987, pp.6-8.

'Comments on Quantum Reality'. American Journal of Physics, 55, 1987, p.1064.

R.K. CLIFTON AND M.L.G. REDHEAD

'The Compatibility of CP Violating Systems with Statistical Locality'. Physics Letters 126A, 1988, pp.295-299.

A. DINIS

'Popper on Metaphysics and Induction'. Epistemologia X, 1987, pp.285-302.

'Os Comentarios de Genesi de S. Agostinho e a Polemica Copernicana', Revista Portuguesa de Filosofia XLIV, 1988, pp.39-61.

'Galileu as Razoes de um Processo'. Broteria, 1988, pp.228-230.

J.P. FORRESTER

'The Seminar of Jacques Lacan: In Place of an Introduction'. Book I. Freud's Papers on Technique, 1953-54. Free Associations 10, 1988, pp.63-93.

'The Seminar of Jacques Lacan: In Place of an Introduction'. Book II. The Ego in Freud's Theory and in the Technique of Psychoanalysis, 1954-55. Free Associations 11, 1988, pp.86-107.

'The History of the Subject' in: Lisa Appignanesi (ed.), The Real Me, ICA Documents, London, 1988, pp.13-16.

Jacques Lacan, The Seminar. Book I. Freud's Papers on Technique. 1953-54, edited by Jacques-Alain Miller, translated with notes by John Forrester, Cambridge: CUP/New York: Norton, 1988.

Jacques Lacan, The Seminar, Book II.i The Ego in Freud's Theory and in Psychoanalytic Technique 1954-55, edited by Jacques-Alain Miller, translated by Sylvana Tomaselli with notes by John Forrester, Cambridge: CUP/New York: Norton, 1988.

J. V. GOLINSKI

'Utility and Audience in Eighteenth-Century Chemistry: Case-Studies of William Cullen and Joseph Priestly'. The British Journal for the History of Science 21 1988, pp.1-31.

'The Secret Life of an Alchemist', in John Fauvel, Raymond Flood, Michael Shortland and Robin Wilson (eds.), Let Newton Be!, Oxford University Press, Oxford, 1988, pp. 146-167.

M.B. HESSE

'Ayer and the Philosophy of Science', in B. Gower, (ed.) Logical Positivism in Perspective, , Croom Helm, London, 1987, pp.69-88.

The Construction of Reality, Gifford Lectures in the University of Edinburgh, by M.A. Arbib and M.B. Hesse, Cambridge University Press, 1987, pp. xii + 286.

'Keynes and the Method of Analogy', Topoi, 6, 1987, pp.65-74.

'Tropical Talk: the Myth of the Literal'. Proc. Aristotelian Society Supplement, 61, 1987, pp.297-311.

'Socializing Epistemology', in E. McMullin, (ed.) Construction and Constraint: the Shaping of Scientific Rationality, , University of Notre Dame Press, 1988, pp.97-122.

'Socializzare l'Epistemologia' (translation of above), Rassegna Italiana di Sociologia, 28, pp.334-356.

'Social Beyond Realism and Relativism', in L. van Vucht Tijssen & J. de Wolf, (eds.) Cognitive Relativism and Social Science, D. Raven, University of Utrecht, 1988, pp.129-143.

'The Cognitive Claims of Metaphor'. (revision). Journal of Speculative Phil., 2, 1988, pp.1-16.

'Theories, Family Resemblances and Analogy', in D. Helman, (ed.) Analogical Reasoning, Kluwer Academic Publishers, Dordrecht, 1988, pp.317-340.

'Physics, Philosophy and Myth', in R.J. Russell, W.R. Stoeger and G.V. Coyne, eds. Physics, Philosophy and Theology: A Common Quest for Understanding, , University of Notre Dame Press, 1988, pp.185-202.

'Vico's Heroic Metaphor', in R. Woolhouse. ed. Metaphysics and Philosophy of Science in the 17th and 18th Centuries, Kluwer Academic Publishers, Dordrecht, 1988, pp.185-212.

'Rationality in Science and Morals', Zygon 23, 1988, pp.327-332.

#### N. JARDINE

Essay review of Bruno Latour, Science in Action, TLS, Nov. 1987.

'Scepticism in Renaissance Astronomy: A Preliminary Study', in C.B.Schmitt and R.H.Popkin (eds.) Scepticism from the Renaissance to the Enlightenment, Wiesbaden, 1987, pp.83-102.

The Birth of History and Philosophy of Science, revised paperback edition, Cambridge, 1988.

'Epistemology of the Sciences', in C.B.Schmitt and Q.R.D.Skinner, The Cambridge History of Renaissance Philosophy, Cambridge, 1988, pp.685-711.

#### R.C. JENNINGS

'Is It True What Haack Says About Tarski?' (1987), Philosophy, 62, 1987, pp.237-243.

'Tarski - A Dilemma, Inquiry 30, 1987, pp.155-172.

'Translation, Interpretation and Understanding', Philosophy of the Social Sciences 18, 1988, pp.343-353.

'Leviathan and the Air-Pump' review article, The British Journal for the Philosophy of Science 39, 1988, pp.403-410.

'Alternative Mathematics and the Strong Programme: Reply to Triplett'. Inquiry 31, 1988, pp.93-101.

S. MASON

'Biomolecular Handedness Origins and Significance'. Biochemical Pharmacology, 37 1988, pp.1-7.

D. PAPINEAU

Reality and Representation. Basil Blackwell, 1987.

For Science in the Social Sciences. Macmillan Paperback, 1987.  
(original hardback ed. 1978)

'Discussion: C. Peacocke's Thoughts'. Philosophical Books, 28, 1987, pp.1-9.

'Bred in the USA: Better Philosophers'. Times Literary Supplement, 23 October 1987, pp.1166, 1177.

'Mathematical Fictionalism'. International Studies in the Philosophy of Science, 2, 1988, pp.151-173.

'Ramsey-Lewis is Better than Mackie'. Analysis, 48, 1988, pp.110-112.

'Does the Sociology of Science Discredit Science?' in R.Nola (ed.) Relativism and Realism in Science, Reidel, 1988, pp.37-59.

M.L.G. REDHEAD

Incompleteness, Nonlocality and Realism: A Prolegomenon to the Philosophy of Quantum Mechanics. Clarendon Press, Oxford, 1987

'Whither Complementarity?' in N. Rescher (ed.): Scientific Enquiry in Philosophical Perspective, University Press of America, 1987, pp.169-182.

'A Philosopher looks at Quantum Field Theory', in H. Brown and R. Harre (eds.): Philosophical Foundations of Quantum Field Theory, Clarendon Press, Oxford, 1988, pp. 9-23.

'Do the Bell Inequalities require the Existence of Joint Probabilities?' (Joint paper with G. Svetlichny, H. Brown and J. Butterfield). Philosophy of Science, 55, 1988, pp.387-401.

'Quantum Physics and the Identity of Indiscernibles' (Joint paper with S. French). The British Journal for the Philosophy of Science, 39, 1988, pp.233-246.

S. SCHAFFER

'Godly Men and Mechanical Philosophers: Spirits and Souls in Restoration Natural Philosophy', Science in context, 1, 1987, pp 55-85.

'Newton's Comets and the Transformation of Astrology', in P.Curry (ed.) Astrology, Science and Society: Historical Essays, Boydell & Brewer, 1987, pp 219-243.

'Authorized Prophets: Comets and Astronomers after 1759'. Studies in Eighteenth Century Culture, 17, 1987, pp.45-74.

'Priestley and the Politics of Spirit', in R.Anderson and C.J.Lawrence (eds) Science, Medicine and Dissent: Joseph Priestley 17330-1802, Wellcome Institute, 1987, pp.39-53.

'The Darwin Letters: Master Minds and Brutes'. Essay review, Cambridge Review, 109, 1988, pp.17-20.

'History of Science', in J.Gardiner (ed.) 'What is History Today? Macmillan, 1988, pp.73-75.

'Astronomers Mark Time: Discipline and the Personal Equation'. Science in Context, 2, 1988, pp.101-131.

'Wallifaction: Hobbes on School Divinity and Experimental Pneumatics'. Studies in History and Philosophy of Science, 19, 1988, pp.275-298.

'Science and Puritanism'. Essay review, Social studies of science, 18, 1988, pp.551-556.

#### F. WILLMOTH

'John Flamsteed's Letter Concerning the Natural Causes of Earthquakes'. Annals of Science, 44, No.1, 1987, pp.23-70.

'Flamsteed's Earthquakes Theory: A Summary', in Mitteilungen des Arbeitskreises der Geschichte der Geophysik in der Deutschen Geophysikalischen Gesellschaft, 7. No.1, 1988, pp.12-22.

**A P P E N D I X      A**

**REPORT OF THE WELLCOME UNIT FOR THE HISTORY OF MEDICINE  
FOR THE CALENDAR YEAR 1988**

University of Cambridge

WELLCOME UNIT FOR THE HISTORY OF MEDICINE

ANNUAL REPORT

Calendar Year 1988

GENERAL

Status

The Unit is in the first year of a new quinquennium of support from the Wellcome Trust, and in its eighteenth year of existence. It is a sub-Department of the Department of the History and Philosophy of Science, and the Director is the University Lecturer in the History of Medicine. The Director is responsible to a Management Committee established by ordinance of the University and composed of representatives of relevant faculties and the General Board of the University.

Staff

At the time of writing, the core staff of the Unit consist of Dr R.K. French (Director, and University Lecturer), Dr A.R. Cunningham (Wellcome Lecturer), Dr J.P. Williams (Teaching Associate), and an assistant secretary; all these staff, except Dr French, are supported by the Wellcome Trust. The Trust also pay half of the combined salaries of the two Departmental secretaries. There is also a half-time Wellcome Fellow on a two-year contract, with responsibility for undergraduate supervisions, R. Kilpatrick; and there are a number of Wellcome Fellows and others associated with the Unit, such as Dr Helen Brock, who is a Research Associate of the Unit.

Research Fellows

The Research Fellows are or have been: Dr Johanna Geyer-Kordesch (from October 88); Dr Ole Grel (from October 88); Dr John Henderson (to September 88); Robert Kilpatrick; Dr Cornelius O'Boyle; Dr Nigel Oswald (part-time Fellow); Dr Julian Martin; Dr Graham White; Dr Adrian Wilson (to September 88). Amongst the changes amongst personnel during the period under review: Dr Wilson has completed his Fellowship and left to take up a post at Leicester University; Dr Henderson has completed his Fellowship and taken up a post at London University, although he remains closely associated with the Unit. Dr Williams will relinquish his post at the end of 1988.

Course teaching

The Unit continued to provide its customary lecturing in the History of Science option of the Natural Sciences Tripos (two papers), and in the Medical Sciences Tripos (a Special Subject and an Elective subject). Student numbers continue to grow. Drs French and Cunningham also taught a joint course on the history of natural philosophy in the medieval period for the H.P.S. course.

### Special interests

The special area of interest of the members of the Unit is in Medieval and Renaissance history of medicine, though not the exclusion of earlier and later topics. Contacts have been steadily developing with another group with matching interests: the history of medicine group under Professor Garcia Ballester at C.S.I.C. Barcelona. Drs French and Cunningham visited Barcelona in December 1987 to organise a joint conference to be held in Barcelona in April 1989, and a reciprocal one at Cambridge is under consideration for the future. Dr O'Boyle visited the Barcelona group for a few days to investigate their resources; and a book on syphilis is under contract with Yale University Press to be written jointly by two members of the Cambridge Unit (Drs French and Henderson), and one of the Barcelona group (Dr Arrizabalaga). Such contacts are mutually advantageous, and it is hoped to further them in the future.

### Conferences

The series of conferences organised by or in association with the Unit, and funded by the Wellcome Trust, continued. The revised papers of the 1987 conference, on medicine in the eighteenth century, were edited by Drs Cunningham and French, and at the time of writing it is highly probable that they will be published as a volume by Cambridge University Press. In September 1988 Drs Cunningham and Williams organised a conference at Cambridge on "Medicine and the Laboratory, 1815-1914" (see separate report). For 1989 a conference has been planned on "Practitioners and medical practice in the Latin Mediterranean, 1100-1350", organised with our colleagues at Barcelona by Drs French and Cunningham, and with strong representation from the Unit among the speakers. For 1990 Drs French and Geyer-Kordesch are joining with Dr Wear of the London Unit to organise at Cambridge a conference on the history of medical ethics.

### Seminars and workshops

The Unit is the largest it has ever been, and may be considered to have reached a critical mass. In the first term of the year advantage was taken of this to run a series of closed workshops for members of the Unit, in which members raised issues arising from their research, which were then discussed by all the other members. In the second and third terms more conventional seminar programmes were run, with two themes being pursued in tandem: medieval medicine and early nineteenth century medicine (see listings). As will be seen below, there are a remarkable number of joint projects being conducted by the members of the Unit.

### Ph.D. successes

Three more graduate students have successfully submitted their Ph.D. theses during the year. Julian Martin and Robert Kilpatrick both held training scholarships from the Wellcome Trust, and both continue with Wellcome support. They were supervised by Dr Cunningham. The third successful candidate was John Lim, whose dissertation was on the history of acupuncture; Dr French was his co-supervisor.

### M.Phil. course in the History of Medicine

The M.Phil. in the History of Medicine continued to be taught. Drs Cunningham and Williams taught it in 1987-8, and Dr French has undertaken it for the 1988-9 academic year. There were four students 1987-8, and there are two for 1988-9. For the second time (the first was in 1985 by Joan Butterson), work originally prepared for the M.Phil. was submitted to and won the Osler Medal Essay Contest of the American Association for the History of Medicine: Francis M. Lobo, "John Haygarth, Smallpox, and Religious Dissent in Eighteenth-Century England". This will appear in a volume being edited by Drs French and Cunningham. Other former students have some of their M.Phil. work appearing in print: Julian Martin (see his entry below), and Timothy Stokes (forthcoming in Medical History). Although the M.Phil. is not taught with an eye to publication, it is gratifying to see so many students publish work which has been produced within just one year of medical history teaching.

### Visitation of the Unit by the Wellcome Trust

The Unit received a Visitation from the Wellcome Trust in January 1988. The Trust agreed to fund the Unit for a further five years. As a result of the report and recommendations made by the Visitors, a number of changes are being introduced into the Unit. These are detailed below under Dr French's entry.

### Future plans

Amongst prospective developments it is hoped that the Unit will be able to participate in the development of the study of medical ethics at Cambridge. It is an area of particular interest to the Head of Department, Professor Redhead, with whom some planning has already been undertaken.

## Staff and Fellows

**Dr Roger French** continues as Director of the Unit to seek to maintain the Unit's advantageous position in the University; and in the current year has additionally been seeking to make some adjustments in the running of the Unit inline with the suggestions of the Wellcome Panel of Visitation.

As a result of the Visitation, Dr French has been conducting negotiations with the General Board to secure further accommodation for the Unit on the same site in rooms vacated by a neighbouring department (Applied Biology). Such a move is desirable since the recent growth of the Unit makes it in numerical terms larger than the H.P.S. Department. As a Subdepartment of History and Philosophy of Science, the Unit derives physical and academic benefits from its close proximity to the Department, the Whipple Library and Museum.

The Director has also considered initiatives in response to the Visitors' disquiet about whether the Unit (and the Trust) are getting value for money out of the present arrangement for secretarial services. The growth of the Unit has meant that its need of secretarial services has also grown. The Unit would benefit considerably by having its own secretary with administrative responsibility. At present the Trust pays one half of the combined salaries two secretaries, one senior and administrative (for both Department and Unit), and one junior. In financial terms, then, a separate secretary for the Unit would be possible. In addition the junior secretary has in the past been largely a copy-typist, and with increased use of word-processors by Unit members, this duty has become less onerous, and would be usefully replaced by administrative tasks. However, to employ the senior secretary at her current grade, the University requires that supervision of a junior should be among her duties. It is thus impossible for the Unit to have an entirely separate secretary. The Director believes, however, that the best use of Wellcome support here would be for the junior secretary to be formally the Unit's secretary and that Unit administrative business should be her first priority. It is not expected that this will occupy all her time, when she could, under the supervision of the senior secretary, work for the Department. It is hoped that this arrangement would meet the Visiting Panel's objections.

The Director has also been concerned to re-establish links with the Clinical School. Negotiations with the new Regius Professor of Medicine (Professor Peters), conducted with Professor Redhead (Head of H.P.S.), have meant that at the end of 1988 the Unit is again ready to present historical displays at the Clinical School, to offer a number of associated historical lectures and to act as a centre of liaison for clinicians, lawyers and others with an interest in the history of medical ethics. Further details will be given in next year's Annual Report.

Following the Visitation, plans have also been made by the Director to reduce the teaching load on the Officers of the Unit by combining two of the Unit's teaching courses, the Medical Elective (available to medical students), and the Special Subject History of Medicine (available at Part II in the Medical Sciences Tripos and in H.P.S. Part II in the Natural Sciences Tripos as Papers 7 & 8). This will reduce the range of the Unit's teaching, but not its availability. These plans will come into effect in 1989-90.

With the continued development of the Unit as a centre for medieval and

renaissance studies, the Director has (with Dr O'Boyle) organised a series of seminars on the origin of the universities, and has made contact with a number of overseas medievalists and institutions. Plans are now being made for future meetings in Cambridge. Apart from the workshops mentioned above, the medievalists of the Unit now meet on a regular basis for mutual development of their research.

The Director has delivered for publication the following papers: 'Sign conceptions in medicine from the renaissance to the early nineteenth century', for Semiotik. Handbuch zur Sprach- und Kommunikationswissenschaft, ed. Posner, Berlin; 'Pietism and pathology', to appear in a volume on 18th century medicine, edited by himself and Dr Cunningham; 'Harvey in Holland: circulation and the Calvinists', for R. French and A. Wear, The Medical Revolution of the Seventeenth Century, Cambridge; 'Surgery and scrophula' for C. Lawrence, ed., Medical Theory and Surgical Practice, London.

He has given papers to the Cabinet of Natural History, Cambridge, on Gesner; and to the Academic Unit of the Wellcome Institute in London, on the early history of syphilis (with Drs Arrizabalaga and Henderson). A considerable amount of research time during the year has been spent on the preparation of a book on Harvey, and of another (with Dr Cunningham) on early natural philosophy.

The Director acted for the last time as Awarder (with Professor Fox) for the discontinued AO History of Science examination (Oxford and Cambridge Schools examinations); and was External Examiner in History and Philosophy of Science at Aberdeen. He continues to supervise for the degrees of M.Phil., M. Litt., and Ph.D.

**Dr Andrew Cunningham** has continued his usual lecturing in history of medicine and, with Dr French, on the history of natural philosophy. As reported elsewhere, two of his Ph.D. supervisees completed, submitted and were passed. He continued to teach the M.Phil., with Dr Williams.

With Dr French he edited for publication the papers from the 1987 conference on 18th century medicine. With Dr Williams he organised the 1988 conference run by the Unit, on medicine and the laboratory.

With Dr Jardine of the Department he initiated a new series of research seminars and other activities under the title 'The Cabinet of Natural History', which meets weekly in the Department and brings together people researching in a wide range of biological, medical and natural historical fields.

His paper "Getting the game right: Some plain words on the identity and invention of science" appeared in Studies in History and Philosophy of Science, 1988; "Thomas Sydenham: epidemics, experiment and the Good Old Cause" will shortly appear in The Medical Revolution of the Seventeenth Century, edited by Drs French and Wear. Romanticism and the Sciences, a volume which he has edited with Dr Jardine, has now gone to press and it is hoped that it will appear in 1989.

**Dr Perry Williams** continued his regular undergraduate lectures on 'The modern medical professions and the development of scientific medicine 1815-1914'. With Dr Cunningham he taught the M.Phil. course, including supervising two dissertations, on 'Keats, medicine and poetry' and 'Pasteur's researches and the nature of life'. He also lectured on Darwin and evolution for the summer school run by the University of California, Los Angeles.

He organised the conference on 'Medicine and the Laboratory' with Dr Cunningham, which was held at Cambridge in September 1988, and is editing the papers for a book of the same title. He was co-organiser of a series of Unit seminars on nineteenth century public health (see sheet).

He is preparing 'Women and the professional practice of health care 1815-1914' to appear in Women and Science, 1780-1945 (ed. M. Benjamin); this incorporates research on women doctors and nurses done as a Wellcome Research Fellow over the last three years. His paper on 'Religion, respectability and the origin of the modern nurse' is expected to appear in a collection edited by Drs French and Wear. Negotiation with publishers is in progress for a book on the development of science and scientific medicine in the nineteenth century, which he is writing with Dr Cunningham.

**Robert Kilpatrick** continued as Supervisor of the undergraduate history of medicine students, while holding a half-time Wellcome Fellowship to work on London hospital medicine from 1820-1840. He completed and submitted his Ph.D. dissertation, "Nature's Schools": The Hunterian Revolution in London Hospital Medicine, 1780-1825, which has been examined and passed.

He has been elected a Senior Member of Wolfson College, and a Fellow of the Royal Society of Medicine. He was awarded a small grant by the Royal Society in connection with his research.

The volume The politics of maternity care, which he has edited with J. Garcia and M. Richards, will appear from Oxford University Press in 1989. His paper " 'Living in the light': dispensaries, philanthropy and medical reform in late eighteenth century London" will appear in a volume edited by Drs French and Cunningham; another paper, 'Eighteenth century England: surgical education in a commercial society', is in press in a volume edited by Prof. Harig, and to be published in Germany; his paper "Astley Cooper and Hunterian Medicine" will appear in a volume on the history of surgery, being edited by Dr C. Lawrence.

In 1989 he will present a paper at the American Association of the History of Medicine, on London hospitals as natural historical collections.

**Dr Cornelius O'Boyle** specialises in medieval medicine, and currently holds a Wellcome Fellowship. He visited Prof. Garcia Ballester's group in Barcelona in Spring 1988. His Ph.D. thesis is currently being considered by publishers. He has organised an informal study group for Cambridge medieval historians interested in palaeological and codicological issues. With Dr French he is also organising one of the Unit's seminar series, on the origins of the university disciplines, including medicine. The papers will be published as a volume of collected essays. Speakers so far include Prof. J.A. Brundage, Dr D. Jacquart, Dr G.R. Evans, and future ones include Dr P. Denley, Dr J. Canning, and Dr J. Marenbon.

With Dr White of the Unit, he is preparing an article on 'A comparison of the introductory questions in the Commentaries on the Tegni by Bartholomew of Bruges and Simon of Craven'. He is editing Bartholomew of Bruges' Dicta super Prognostica; desk-top publication of this is planned. He has written book reviews for Medical History and the Journal for the History of Astronomy.

He has been a regular attender at Wellcome Institute seminars, and at the Warburg Institute in London.

**Dr John Henderson** has continued his tenure as a Wellcome Research Fellow. He has published as editor Charity and the Poor in Late Medieval and Renaissance Europe (which appeared in 1988 as a special number of Continuity and Change). A volume, Christianity and the Renaissance, which he has edited with T. Verdon, is in press with Syracuse University Press. Both volumes contain the proceedings of conferences of which he was the organiser. His recent articles include 'Epidemie nella Firenze del rinascimento: teoria sanitaria e provvedimenti governativi', in A. Pastore and P. Sorcinelli (eds.), Sanita e Societa. Emilia-Romagna, Toscana, Umbria, Lazio, Secoli XVI-XX (Udine, 1988); 'The Parish and the Poor in Florence at the time of the Black Death: the case of San Frediano', in Charity and the Poor (see above). His articles currently in press include 'Charity in Fifteenth Century Florence', in Milan, Florence: Contrasts and Comparisons, to appear in 1989; 'The hospitals of late-medieval Florence: a preliminary survey', to appear in L. Granshaw and R. Porter, Hospitals in History; 'Penitence and the Layman in early Renaissance Florence', in Christianity and the Renaissance (see above); 'Death and dying in Renaissance Florence' in Festschrift for Nicholai Rubenstein, to appear in 1989; and 'Epidemics in Renaissance Florence: medical theory and government response', to appear in Maladies et société, eds. N. Bulst and R. Delort.

During the year he has given papers at seminars at the Cambridge Wellcome Unit; the Theology Faculty at Cambridge; the Wellcome Institute, London; the History Faculty, Cambridge; Westfield College, London; the SSHM conference, Exeter; the Institute of Historical Research, London. In April 1988 he made a lecture tour in California, at Stanford, Berkeley, Davis, UCLA, San Diego and Riverside, lecturing on various aspects of the medical and social history of Renaissance Italy. He was co-organiser of a research seminar on 'Morbidity and Mortality in early modern Europe' at the Cambridge Group for the History of Population and Social Structure.

He has been elected a Fellow of Wolfson College, Cambridge; and a Member of the Executive Committee of the SSHM. He has been awarded an ESRC grant of £60,000 to investigate 'Epidemics and Mortality in the pre-Industrial City: Florence and London compared', which will run for two years from January 1989; in connection with this project he has been made an Associate of the Centre for Metropolitan History at the Institute of Historical Research in London.

**Dr Julian Martin** held a Wellcome Training Scholarship, and completed his Ph.D. thesis in April 1988. It is entitled 'Knowledge is power': Francis Bacon, the State, and the Reform of Natural Philosophy. It is now being considered for publication by Cambridge University Press.

He has contributed to the Unit's teaching programme by lecturing on seventeenth century medicine. He has read papers on Francis Bacon at University College, London, and the Anglo-American Conference of Historians of Science at Manchester.

His article 'Explaining John Freind's History of Physick' appeared in Studies in History and Philosophy of Science; 'Sauvages' Nosology: Medicine and Enlightenment in Montpellier' will appear in a volume on 18th century medicine edited by Drs French and Cunningham. He has reviewed for the British Journal for the History of Science.

He is beginning a Wellcome Research Fellowship to study the creation, in

the early 17th century, of the Society of Apothecaries. He has been invited by the General Editors to edit the first volume of the projected 12 volume Collected Works of Francis Bacon, to be published by Cambridge University Press.

**Dr Graham White** has continued his research, as a Wellcome Fellow, into the effects of the disputational method on medical thought in the Middle Ages. He has been devoting most of his time to preparing a transcript of a 14th century manuscript in Gonville and Caius, of Simon Craven's Questiones. He is preparing an article with Dr O'Boyle of the Unit on the accessus in Craven and Bartholomew of Bruges.

**Dr Adrian Wilson** has now completed his Wellcome Fellowship at the Unit, and has taken up a two-year post at the Department of Economic and Social History at the University of Leicester.

His publications in the year include two articles with T.G. Ashplant, 'Whig history and present-centred history' and 'Present-centred history and the problem of historical knowledge', both of which appeared in The Historical Journal. His book on the history of childbirth has been delivered to Cambridge University Press.

**Dr Nigel Oswald** is a Cambridge G.P. and Director of Studies in General Practice at the Medical School at Addenbrooke's Hospital. He took the M.Phil. in the History of Medicine at Cambridge, and now holds a part-time (one day a week) Wellcome Fellowship while continuing in practice. He has been investigating the medical curriculum in the United Kingdom, with special reference to the education of general practitioners. He is completing a study of the important role in the development of medical education played by Lord Nuffield and his charities (the Oxford Medical School Trust and the Nuffield Provincial Hospitals Trust) and the Goodenough Committee on medical education. He has completed a paper entitled 'And the Future? Lord Nuffield, medical education and the ideal of national health'.

**Dr Ole Grel** joined the Unit in October 1988 as a Wellcome Fellow. His project is entitled 'The Dutch Republic and the development of English medicine: the attraction of Leiden University to English students of medicine, c1590-1642'.

He published two articles during the year: 'The city of Malm and the Danish Reformation', in Archiv fur Reformationsgeschichte; and 'Calvinist Agape or Godly Dining Club?', in Nedelands Archief voor Kerkgeschiedenis.

He has given two papers since beginning the tenure of his Fellowship: 'Plague in Elizabethan and Stuart London: a Dutch response', at the Anglo-Dutch Medical connections symposium at the Wellcome Institute in October; and 'Dutch contributions to the "Calvinist International" of the early seventeenth century', to the Low Countries seminar at the Institute of Historical Research in London.

He was conference secretary and organiser of the historical conference 'From persecution to toleration' held in London in November, under the auspices of the William and Mary Tercentenary Trust, where he gave a paper on the Anglo-Dutch communities in England in 1688. Together with Prof. J. Israel and Dr N. Tyacke he will be editing a collection of essays resulting from this conference.

**Dr Geyer-Kordesch** took up a three-month Wellcome Fellowship at the Unit in October 1988. She has given two lectures in Germany (both in German): at the University of Lubeck, Faculty of Medicine, where she gave a paper on sexuality, gender-relations and the child, in which she pursued medical ethics questions posed by the history of women; and at the University of Heidelberg, where she spoke on 'The natural sciences and medicine: problematizing the relationship between the Scientific Revolution and the Enlightenment'. At Cambridge she has spoken to the Cabinet of Natural History on Austrian baroque natural history cabinets.

She is working on an article on 'Johannn Joachim Becher and Georg Ernst Stahl: anti-mechanist views on chemistry in the early 18th century', for a book on Becher to be published by the Herzog-August Bibliothek in Wolfenbuttel.

R.K. French

Appended documents: - Report on the conference, 'Medicine and the Laboratory'.  
- Seminar programmes.

## Conference on Medicine and the Laboratory

Following the successful conferences of previous years, the Cambridge Wellcome Unit held a further residential conference at Corpus Christi College, Cambridge from 5 to 8 September 1988. This year the subject was "Medicine and the Laboratory 1815-1914". The conference was organised by Andrew Cunningham and Perry Williams and funded by the Wellcome Trust.

The subject and timing of this conference proved very opportune. Many eminent scholars are now turning their attention to various aspects of laboratory medicine, and welcomed the opportunity to present their work and talk with other researchers in the field. The enthusiasm which the participants showed for the conference is an indication of the great importance which the subject is now coming to have.

As in previous years, attendance at the conference was by invitation only in order to create an intimate and intensive atmosphere, with pre-circulation of papers to allow maximum time for discussion.

Those presenting papers at the conference were:

Prof. Merilley Borell (University of California, San Francisco)  
Dr Stella Butler (Manchester Science Museum)  
Dr Bill Bynum (Wellcome Institute)  
Prof. Richard Kremer (Dartmouth College)  
Prof. Bruno Latour (Ecole Nationale Supérieure des Mines, Paris)  
Prof. Timothy Lenoir (Stanford University)  
Prof. Michael Osborne (University of California, Santa Barbara)  
Prof. Harry Paul (University of Florida)  
Dr John Pickstone (Wellcome Unit, Manchester)  
Dr Stewart Richards (London University)  
Dr Paul Weindling (Wellcome Unit, Oxford)

In addition to members of the Unit, those invited to attend included:

Prof. Robert Frank (University of California, Los Angeles)  
Prof. Robert Fox (University of Oxford)  
Dr Nick Jardine (University of Cambridge)  
Prof. Hilary Rose (University of Bradford)  
Dr Simon Schaffer (University of Cambridge)  
Dr Steven Sturdy (Wellcome Unit, Manchester)  
Dr Mikulas Teich (University of Cambridge)

Andrew Cunningham and Perry Williams are pursuing the publication of the conference papers as a book.

University of Cambridge

WELLCOME UNIT FOR THE HISTORY OF MEDICINE

EASTER TERM SEMINARS

Seminars will be held on Mondays or Tuesdays at 5:00 pm in Seminar Room 1, Department of History and Philosophy of Science, Free School Lane.

Abstracts are enclosed. Anyone wishing to be put on the mailing list for future seminars should contact the Secretary at the above address, or telephone (0223) 334540.

Tuesday 3 May	Richard Grove Clare Hall	The Indian Medical Service and the Natural Environment
Monday 9 May	J.A. Brundage University of Wisconsin	The Professionalization of Medieval Canon Law and the Development of the New Universities
Tuesday 17 May	Irvine Loudon Wellcome Unit Oxford	Maternal Mortality 1850- 1950: Some International Comparisons
Tuesday 31 May	Julian Martin Wellcome Unit Cambridge	Edwin Chadwick, Political Economy and Public Health
Monday 6 June	Timothy Stokes University of Edinburgh	A Coleridgean against the Medical Corporations: John Simon and the Parliamentary Campaign for the Reform of the Medical Profession 1854-1858

University of Cambridge

WELLCOME UNIT FOR THE HISTORY OF MEDICINE

MICHAELMAS TERM SEMINARS

Seminars will be held on Mondays or Tuesday at 5:00 pm in Seminar Room 1, Department of History and Philosophy of Science, Free School Lane. Tea is served before each seminar at 4.30 p.m. in the Department

Some abstracts are enclosed. Anyone wishing to be put on the mailing list for future seminars should contact the Secretary at the above address, or telephone (0223) 334540

Tuesday 1 November	Dr Virginia Smith Institute of Historical Research, London	Public Baths and Wash-houses: The Making of the 1846 Act
Tuesday 8 November	Dr Tom Anderson Cambridge	The Reaction of the Victorian Doctor to Darwinian Evolution
Monday 14 November	Dr Danielle Jacquart CNRS Paris	The Foundation of Medicine as a University Discipline during the Thirteenth Century
Monday 21 November	Dr Vivian Nutton Wellcome Institute London	From History into Myth : Jundishapur and the Transmission of Greek Medicine to the Arabs
Monday 28 November	Dr Gillian R. Evans University of Cambridge	The Beginnings of Theology as an Academic Discipline
Monday 5 December	Dr Cornelius O'Boyle Wellcome Unit Cambridge	"Just what the pusillanimous, lugubrious sloths need" : A Dose of Aristotle in the Medical Curriculum at Montpellier in the early Fourteenth Century

**A P P E N D I X    B**

**REPORT OF THE WHIPPLE MUSEUM OF THE HISTORY OF SCIENCE  
FOR THE PERIOD AUGUST 1987 - JULY 1988**

## The Whipple Museum of the History of Science

Annual Report, August 1987 - July 1988

### Cataloguing

The entire collection of electrical and magnetic instruments (over 400 items) was catalogued by Dr K. Lyall, who was visiting the Museum for the academic year from British Columbia. This work was assisted by a generous grant from the Renaissance Trust, and was carried out using the MODES software produced for an IBM-compatible P.C. by the Museums Documentation Association. In this way the project served also as a pilot scheme to test the value of MODES to the Museum. As it turned out, we were one of the first museums to make use of it, and so were of considerable benefit to the M.D.A. Our project was successful and we would like to use MODES more generally in cataloguing. One immediate practical benefit was that we were able to modify the programme to generate our standard catalogue cards and so avoid the long process of having them typed.

### Teaching

For the first time the Museum Collection has provided the basis for an extensive course in the history of scientific instruments, contributing to the three history papers at Part II. There were 32 sessions (held twice weekly during the Michaelmas and Lent Terms), alternately lectures and 'demonstrations' involving access to the collection. This is believed to be the only course of its kind in the world.

### Exhibitions

The exhibition 'Newton's Principia, 1687-1987' was removed early in 1988. Just over 200 remain of the 2,000 sets of wallchart exhibitions printed; the rest have been distributed, on request, to institutions throughout the world.

The new exhibition for 1988 is 'The Ivory Sundials of Nuremberg, 1500-1700', an exhibition of diptych dials from the Whipple Collection and that of the Museum of the History of Science, Oxford. The exhibition is based on the research of Dr Penelope Gouk, who has written the accompanying catalogue. A generous grant from the Renaissance Trust has allowed us to reach a standard of display not previously achieved in the Whipple. As a result, the exhibition received national coverage in the press and local coverage on television.

### Loans

Instruments have been loaned to exhibitions at the Museum of London and the Department of Geography.

#### Publications

The costs of the publication 'The Ivory Sundials of Nuremberg, 1500-1700' (a combined monograph and exhibition catalogue) were met by the Renaissance Trust. The result is a handsome, professionally designed book, with colour printing, quite different in appearance from the usual Whipple publications.

'Catalogue 6. Sundials and related instruments', by David Bryden, was also published on the opening of the exhibition. It is a large illustrated catalogue of an important section of the collection.

#### New Galleries

Planning permission for adding a new floor above the Library, previously refused by the Local Authority, has now been granted on appeal. The plan would release the existing library space to house three new galleries. Permission and some funding has been granted by the University, but most of the cost will have to be met from outside.

#### Television

Visits to the Museum were made by B.B.C film crews (two), by C.B.C., and by a crew from Quebec.

#### Acquisitions

Sound spectrograph by Kay Electrical Co, T (Vetinary Anatomy)  
Slide rule by Keuffel Esser & Co, G (\*\*\*\*\*)  
Crooke's Spinthariscopes by Newton & Co, G \*\*  
Thermometer By J. & H.J. Green, G  
Polarized light demonstration apparatus by Newton & Co, G  
Pocket adding machine, G  
Major Gunter's field sketching protractor, G  
Drum microscope, G (D. Baxter)  
Dumpy level by Troughton & Simms, P  
Microspectroscope by Zeiss, T (Molteno Institute)  
Reflecting circle by Lenoir, P  
Anemometer by Casartelli, P  
Planimeter by Stanley, P  
Prismatic compass by Stanley, P  
Abney level by Stanley, P  
Box sextant by Stanley, P  
Circumferentor by Pearson of Portland, U.S.A., P\*  
Tell-tale compass by King of New York, P\*

Spherometer by Duboscq-Soleil, P  
 Recorging spectroscopie micrometer by Browning, P\*  
 Moving-wire eyepiece micrometer by Browning, P  
 Divided-lens eyepiece micrometer by Browning, P  
 Sextant by Troughton, P\*  
 Calculator by Marchant, T (DAMPT)  
 Early penicillen ampoules by Abbott Labs, T (Pathology)  
 Paper tapr controller by Creed & Co Ltd, T (Experimental  
 Psychology)  
 Astronomical spectroscopie by Browning, P  
 Simple theodolite by Lerebours et Secretan, P\*  
 Circumferentor with miner's tripod by Troughton & Simms,  
 P\*  
 Mechanical calculator by Curta, P  
 Thermometer by Secretan, P  
 Sextant by Lenoir, P\*  
 Part level by Lenoir, P  
 Ayrton-Mather gavanometers (2 models) by R.W. Paul, G (Dr  
 N. Clarke)  
 Fery pyrometer by Pellin, P\*  
 Ballery of five Leyden jars, P  
 Sextant by Gambey, P\*  
 Dutchman's log /tobacco box, P

G = gift; T = transferred from another University  
 Department; P = purchased, \* = with the help of a grant  
 from the Preservation Fund adminstered by the Science  
 Museum.